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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,823	02/03/2004	Ming-i M. Lin	END920030080US1	3975
30449	7590	10/31/2006	EXAMINER	
SCHMEISER, OLSEN & WATTS 22 CENTURY HILL DRIVE SUITE 302 LATHAM, NY 12110			CHAUDRY, MUSTABA M	
			ART UNIT	PAPER NUMBER
			2133	

DATE MAILED: 10/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/771,823	LIN ET AL.
	Examiner	Art Unit
	Mujtaba K. Chaudry	2133

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 03 February 2004.
- 2a) This action is **FINAL**.                                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-30 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 12-19 is/are allowed.
- 6) Claim(s) \_\_\_\_\_ is/are rejected.
- 7) Claim(s) 1-11 and 20-30 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 03 February 2004 is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 2/3/2004.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

## **DETAILED ACTION**

Claims 1-30 are presented for examination.

### ***Information Disclosure Statement***

The references listed in the information disclosure statements (IDS) submitted February 03, 2004 were considered. The submission is in compliance with the provisions of 37 CFR 1.97.

### ***Oath/Declaration***

The Oath filed February 03, 2004 is objected to because:

- The information regarding the forth inventor, Gregory J. Mann is not clear. Particularly, the residence address, which is update by hand is not legible and readable.

Appropriate correction is requested.

### ***Drawings***

The drawings submitted February 03, 2004 are accepted.

### ***Specification***

The specification submitted February 03, 2004 is accepted.

***Claim Objections***

Claim 1 is objected to because of the following informalities:

- In line 9, the claim recites, "...said multiplicity of CRC circuits..." and it should recite, "...said set of CRC circuits..." to maintain uniform language throughout the claim(s). The Examiner will interpret as such.
- Claim limitations are to be indented and separated by a semicolon (;) as presented in independent claim 12.

Appropriate correction is required.

Claim 20 is objected to because of the following informalities:

- In line 11, the claim recites, "...said multiplicity of CRC circuits..." and it should recite, "...said set of CRC circuits..." to maintain uniform language throughout the claim(s). The Examiner will interpret as such.
- Claim limitations are to be indented and separated by a semicolon (;) as presented in independent claim 12.

Appropriate correction is required.

***Allowable Subject Matter***

Claims 12-19 are allowed and claims 1-11 and 20-30 would be in condition for allowance once the minor objections noted herein above are corrected. The following is a statement of reasons for the indication of allowable subject matter:

Independent claim 1 of the present application teaches a CRC generator/checker for generating CRC results, comprising: a set of CRC circuits connected in series, each CRC circuit responsive to a different control signal generated by a control logic, each CRC circuit having a seed input adapted to receive a seed, a data input adapted to receive and process a different set of M-bits of a data unit and a result output adapted to generate a result, the result output of a previous CRC circuit connected to the seed input of an immediately subsequent CRC circuit, the seed input of a first CRC circuit connected to an output of a remainder register, an input of said remainder register connected to an output of a multiplexer, the result outputs of said set of CRC circuit connected to different inputs of said multiplexer, said multiplexer responsive to a select signal generated by said control logic. The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, “...a set of CRC circuits connected in series, each CRC circuit responsive to a different control signal generated by a control logic, each CRC circuit having a seed input adapted to receive a seed, a data input adapted to receive and process a different set of M-bits of a data unit and *a result output adapted to generate a result, the result output of a previous CRC circuit connected to the seed input of an immediately subsequent CRC circuit, the seed input of a first CRC circuit connected to an output of a remainder register, an input of said remainder register connected to an output of a multiplexer, the result outputs of said set of CRC circuit connected to different inputs of said multiplexer, said multiplexer responsive to a select signal generated by said control logic.*”

Independent claims 12 and 20 recite similar limitations of independent claim 1 and therefore are allowed for similar reasons.

Dependent claims 2-11, 13-19 and 21-30 depend from allowable independent claims and inherently include limitations therein and therefore are allowed as well.

***Conclusion***

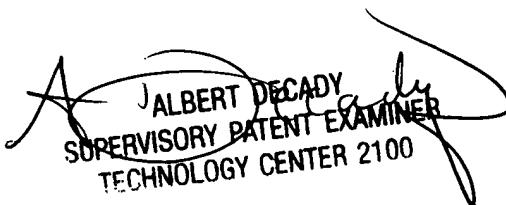
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mujtaba K. Chaudry whose telephone number is 571-272-3817. The examiner can normally be reached on Mon-Thur 9-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on 571-272-3819. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Mujtaba Chaudry  
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October 27, 2006



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